

APPENDIX C - Sample Hazard Label for Isopropyl Alcohol

HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Flammable liquid, Target Organ Effect, Irritant

Target Organs

Nerves, Kidney, Cardiovascular system, Gastrointestinal tract, Liver

GHS Classification

Flammable liquids (Category 2)

Skin irritation (Category 3)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3)

GHS Label elements, including precautionary statements



Pictogram

Signal word Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical hazards:	0










NFPA Rating

Health hazard:	2
Fire:	3
Reactivity Hazard:	0

Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed

HCS Pictograms and Hazards

<p><i>Health Hazard</i></p>  <ul style="list-style-type: none"> ✦ <i>Carcinogen</i> ✦ <i>Mutagenicity</i> ✦ <i>Reproductive Toxicity</i> ✦ <i>Respiratory Sensitizer</i> ✦ <i>Target Organ Toxicity</i> ✦ <i>Aspiration Toxicity</i> 	<p><i>Flame</i></p>  <ul style="list-style-type: none"> ✦ <i>Flammables</i> ✦ <i>Pyrophorics</i> ✦ <i>Self-Heating</i> ✦ <i>Emits Flammable Gas</i> ✦ <i>Self-Reactives</i> ✦ <i>Organic Peroxides</i> 	<p><i>Exclamation Mark</i></p>  <ul style="list-style-type: none"> ✦ <i>Irritant (skin and eye)</i> ✦ <i>Skin Sensitizer</i> ✦ <i>Acute Toxicity</i> ✦ <i>Narcotic Effects</i> ✦ <i>Respiratory Tract Irritant</i> ✦ <i>Hazardous to Ozone Layer (Non-Mandatory)</i>
<p><i>Gas Cylinder</i></p>  <ul style="list-style-type: none"> ✦ <i>Gases Under Pressure</i> 	<p><i>Corrosion</i></p>  <ul style="list-style-type: none"> ✦ <i>Skin Corrosion/ Burns</i> ✦ <i>Eye Damage</i> ✦ <i>Corrosive to Metals</i> 	<p><i>Exploding Bomb</i></p>  <ul style="list-style-type: none"> ✦ <i>Explosives</i> ✦ <i>Self-Reactives</i> ✦ <i>Organic Peroxides</i>
<p><i>Flame Over Circle</i></p>  <ul style="list-style-type: none"> ✦ <i>Oxidizers</i> 	<p><i>Environment (Non-Mandatory)</i></p>  <ul style="list-style-type: none"> ✦ <i>Aquatic Toxicity</i> 	<p><i>Skull and Crossbones</i></p>  <ul style="list-style-type: none"> ✦ <i>Acute Toxicity (fatal or toxic)</i>

SIGNAL WORD (1 OF 2 WILL APPEAR)

Danger-will mean serious hazard or
Warning- will mean a less serious hazard

HAZARD STATEMENT

Highly flammable liquid and vapor.
May cause liver and kidney damage.

CHEMICAL: Isopropyl Alcohol	
CAS #	67-63-0
HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

HEALTH

4	Deadly: even the slightest exposure to this substance would be life threatening. Only specialized protective clothing, for these materials, should be worn.
3	Extreme Danger: serious injury would result from exposure to this substance. Do not expose any body surface to these materials. Full protective measures should be taken.
2	Dangerous: exposure to this substance would be hazardous to health. Protective measures are indicated.
1	Slight Hazard: irritation or minor injury would result from exposure to this substance. Protective measures are indicated.
0	No Hazard: exposure to this substance offers NO significant risk to health.

FLAMMABILITY

4	Flash Point Below 73°F and Boiling Point Below 100°F: this substance is very flammable, volatile or explosive depending on its state. Extreme caution should be used in handling or storing of these materials.
3	Flash Point Below 100°F: flammable, volatile or explosive under almost all normal temperature conditions. Exercise great caution in storage or handling of these materials.
2	Flash Point Below 200°F: moderately heated conditions may ignite this substance. Caution procedures should be employed in handling.
1	Flash Point Above 200°F: this substance must be preheated to ignite. Most combustible solids would be in this category.
0	Will Not Burn: substances that will not burn.

REACTIVITY

4	May Detonate: substances that are readily capable of detonation or explosion at normal temperatures and pressures. Evacuate area if exposed to heat or fire.
3	Explosive: substances that are readily capable of detonation or explosion by a strong initiating source, such as heat, shock or water. Monitor from behind explosion-resistant barriers.
2	Unstable: violent chemical changes are possible at normal or elevated temperatures and pressures. Potentially violent or explosive reaction may occur when mixed with water. Monitor from a safe distance.
1	Normally stable: substances that may become unstable at elevated temperatures and pressures or when mixed with water. Approach with caution.
0	Stable: substances which will remain stable when exposed to heat, pressure or water.